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	Search Results -
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DATE: Thursday, July 24, 2003 Printable Copy Create Case

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<u>L4</u>	L3 and rieping.in.	4	<u>L4</u>
<u>L3</u>	L2 same (threon\$5 or lysin\$5 or isoleuci\$5 or valin\$3)	18	<u>L3</u>
<u>L2</u>	L1 same (coli\$3 or glutamic\$5 or brevi\$10 or enterobacteri\$6)	67	<u>L2</u>
<u>L1</u>	(pep\$3 same carboxykinas\$5) or pcka\$3 or (phosphoenol\$10 same carboxykinas\$3)	575	<u>L1</u>

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 8 of 8 returned.

1. Document ID: US 20030040103 A1

L5: Entry 1 of 8

File: PGPB

Feb 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030040103

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030040103 A1

TITLE: Fermentation process for the preparation of L-amino acids using strains of the

family enterobacteriaceae

PUBLICATION-DATE: February 27, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Rieping, Mechthild Bielefeld DE
Bastuck, Christine Bielefeld DE
Hermann, Thomas Bielefeld DE
Thierbach, Georg Bielefeld DE

US-CL-CURRENT: 435/252.3

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWIC Draw Desco

2. Document ID: US 20030017554 A1

L5: Entry 2 of 8

File: PGPB

Jan 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030017554

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030017554 A1

TITLE: Process for the fermentative preparation of L-amino acids using strains of the

enterobacteriaceae family

PUBLICATION-DATE: January 23, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Rieping, Mechthild Bielefeld DE Thierbach, Georg Bielefeld DE

US-CL-CURRENT: <u>435/106</u>; <u>435/115</u>, 435/116, 435/252.3

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw Desc Image ☐ 3. Document ID: WO 229080 A2

L5: Entry 3 of 8

File: EPAB

Apr 11, 2002

PUB-NO: WO000229080A2

DOCUMENT-IDENTIFIER: WO 229080 A2

TITLE: FERMENTATION PROCESS FOR THE PREPARATION OF L-AMINO ACIDS USING STRAINS OF THE

FAMILY ENTEROBACTERIACEAE

PUBN-DATE: April 11, 2002

INVENTOR-INFORMATION:

NAME

COUNTRY

RIEPING, MECHTHILD BASTUCK, CHRISTINE HERMANN, THOMAS THIERBACH, GEORG

INT-CL (IPC): $\underline{\text{C12}} \ \underline{\text{P}} \ \underline{13/04}; \ \underline{\text{C12}} \ \underline{\text{P}} \ \underline{13/08}; \ \underline{\text{C12}} \ \underline{\text{N}} \ \underline{1/21}; \ \underline{\text{C12}} \ \underline{\text{N}} \ \underline{15/11}; \ \underline{\text{C12}} \ \underline{\text{N}} \ \underline{15/60}$

EUR-CL (EPC): C12P013/06; C12N015/52, C12P013/08, C12R001/19

Full Title Citation Front Review Classification Date Reference Sequences Attachments
Image

KWMC | Draw, Desc

4. Document ID: WO 200227000 A1 AU 200195580 A DE 10047866 A1 US 20020086374 A1

L5: Entry 4 of 8

File: DWPI

Apr 4, 2002

DERWENT-ACC-NO: 2002-394241

DERWENT-WEEK: 200252

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TITLE: New polynucleotide from coryneform bacteria coding for dep67 gene, where overexpression of the gene provides improved production of L-amino acids particularly L-lysine in corynebacterium glutamicum

INVENTOR: BATHE, B; FARWICK, M; HERMANN, T; HUTHMACHER, K; PFEFFERLE, W

PRIORITY-DATA: 2000DE-1047866 (September 27, 2000)

PATENT-FAMILY:

PUB-DATE PUB-NO LANGUAGE **PAGES** MAIN-IPC WO 200227000 A1 April 4, 2002 Ε 042 C12N015/77 April 8, 2002 AU 200195580 A 000 C12N015/77 DE 10047866 A1 April 11, 2002 000 C12N001/21 US 20020086374 A1 July 4, 2002 000 C12P013/08

INT-CL (IPC): $\underline{\text{C07}}$ $\underline{\text{H}}$ $\underline{21/00}$; $\underline{\text{C07}}$ $\underline{\text{H}}$ $\underline{21/04}$; $\underline{\text{C07}}$ $\underline{\text{K}}$ $\underline{14/34}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{1/21}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{5/10}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{15/74}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{15/77}$; $\underline{\text{C12}}$ $\underline{\text{P}}$ $\underline{13/04}$; $\underline{\text{C12}}$ $\underline{\text{P}}$ $\underline{13/08}$; $\underline{\text{C12}}$ $\underline{\text{P}}$ $\underline{21/02}$; $\underline{\text{C12}}$ $\underline{\text{Q}}$ $\underline{1/68}$

Full Title Citation Front Review Classification Date Reference Sequences Attachments KMC Draw Desc

5. Document ID: EP 1317547 A1 WO 200222828 A1 DE 10120095 A1 US 20020042105 A1 AU 200182132 A

L5: Entry 5 of 8

File: DWPI

Jun 11, 2003

DERWENT-ACC-NO: 2002-351892

DERWENT-WEEK: 200339

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TITLE: New protein kinase B, pknB gene from corynebacteria, useful as hybridization probe and overexpression of which gene in corynebacteria is useful for producing L-amino acids, in particular L-lysine

INVENTOR: BATHE, B; FARWICK, M; HANS, S; HERMANN, T

PRIORITY-DATA: 2001DE-1020095 (April 25, 2001), 2000DE-1044912 (September 12, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 1317547 A1	June 11, 2003	E	000	C12N015/54
WO 200222828 A1	March 21, 2002	E	046	C12N015/54
DE 10120095 A1	March 28, 2002		000	C12N015/54
US 20020042105 A1	April 11, 2002		000	C12P013/04
AU 200182132 A	March 26, 2002		000	C12N015/54

INT-CL (IPC): $\underline{\text{C07}}$ $\underline{\text{H}}$ $\underline{21/00}$; $\underline{\text{C07}}$ $\underline{\text{H}}$ $\underline{21/04}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{1/21}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{9/00}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{9/12}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{15/54}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{13/04}$; $\underline{\text{C12}}$ $\underline{\text{P}}$ $\underline{13/08}$; $\underline{\text{C12}}$ $\underline{\text{Q}}$ $\underline{1/68}$

Full	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWMC | Draww Desc

6. Document ID: US 20030100080 A1 WO 200220806 A1 DE 10109685 A1 AU 200179755 A EP 1315820 A1

L5: Entry 6 of 8

File: DWPI

May 29, 2003

DERWENT-ACC-NO: 2002-463087

DERWENT-WEEK: 200337

COPYRIGHT 2003 DERWENT INFORMATION LTD

TITLE: Novel sahH gene from coryneform bacteria useful as probe to isolate genes coding for adenosyl homocysteinase, and overexpression of which gene in coryneform bacteria is useful for producing amino acids, e.g. L-lysine

INVENTOR: BREHME, J; FARWICK, M; HUTHMACHER, K; PFEFFERLE, W; BINDER, M; GREISSINGER, D; THIERBACH, G

PRIORITY-DATA: 2001DE-1009685 (February 28, 2001), 2000DE-1044706 (September 9, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20030100080 A1	May 29, 2003		000	C12P013/04
WO 200220806 A1	March 14, 2002	E	053	C12N015/60
DE 10109685 A1	April 11, 2002		000	C12N015/55
AU 200179755 A	March 22, 2002		000	C12N015/60
EP 1315820 A1	June 4, 2003	E	000	C12N015/60

INT-CL (IPC): $\underline{A23}$ \underline{K} $\underline{1/00}$; $\underline{A23}$ \underline{K} $\underline{1/16}$; $\underline{C07}$ \underline{H} $\underline{21/04}$; $\underline{C12}$ \underline{N} $\underline{1/21}$; $\underline{C12}$ \underline{N} $\underline{9/88}$; $\underline{C12}$ \underline{N}

 $\frac{15/55}{\text{Cl2 P}}; \frac{\text{Cl2 N}}{21/02}; \frac{15/60}{\text{Cl2 Q}}; \frac{\text{Cl2 N}}{1/68} \xrightarrow{15/74}; \frac{\text{Cl2 N}}{15/77}; \frac{\text{Cl2 P}}{13/04}; \frac{13/04}{\text{Cl2 P}}; \frac{13/08}{13/08}; \frac{\text{Cl2 P}}{13/12};$

Full Title Citation Front Review Classification Date Reference Sequences Attachments
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KMMC Drawn Desc

L5: Entry 7 of 8

File: DWPI

Document ID: WO 200218599 A1 US 20020106755 A1 DE 10136984 A1 AU 200189850

Mar 7, 2002

DERWENT-ACC-NO: 2002-315544

DERWENT-WEEK: 200254

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TITLE: New sigM gene from coryneform bacteria useful as probe to isolate genes which code for sigma factor M, and overexpression of which gene in coryneform bacteria is useful for producing amino acids, especially L-lysine

INVENTOR: BASTUCK, C; BATHE, B; FARWICK, M; HERMANN, T; PFEFFERLE, W

PRIORITY-DATA: 2001DE-1036984 (July 28, 2001), 2000DE-1043337 (September 2, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 200218599 A1	March 7, 2002	E	042	C12N015/31
US 20020106755 A1	August 8, 2002		000	C12P013/08
DE 10136984 A1	April 18, 2002		000	C12N015/11
AU 200189850 A	March 13, 2002		000	C12N015/31

INT-CL (IPC): $\underline{\text{C07}}$ $\underline{\text{H}}$ $\underline{\text{21/04}}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{\text{1/21}}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{\text{9/10}}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{\text{15/11}}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{\text{15/31}}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{\text{15/31}}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{\text{1/21}}$ $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{\text{1/21}}$ $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{\text{1/21}}$ $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{\text{1/21}}$ $\underline{\text{N}}$ $\underline{\text{1/21}}$

Full Title Citation Front Review Classification Date Reference Sequences Attachments Clip Img Image

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S. Document ID: WO 200218598 A1 US 20020106756 A1 DE 10133427 A1 AU 200182084 A

L5: Entry 8 of 8

File: DWPI

Mar 7, 2002

DERWENT-ACC-NO: 2002-315543

DERWENT-WEEK: 200254

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TITLE: New sigH gene from coryneform bacteria useful as a probe to isolate genes which code for sigma factor H, and overexpression of which gene in coryneform bacteria is useful for producing amino acids, especially L-lysine

INVENTOR: BATHE, B; FARWICK, M; $\underline{\text{HERMANN, T}}$; MARX, A; PFEFFERLE, W; $\underline{\text{RIEPING, M}}$; SCHROEDER, I; SCHRODER, I

PRIORITY-DATA: 2001DE-1033427 (July 10, 2001), 2000DE-1043333 (September 2, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 200218598 A1	March 7, 2002	E	045	C12N015/31
US 20020106756 A1	August 8, 2002		000	C12P013/08
DE 10133427 A1	March 14, 2002		000	C12N001/21
AU 200182084 A	March 13, 2002		000	C12N015/31

Full Title Citation Front Review Classification Date Reference Sequences Attachmer	nts KWMC Drawn Desc
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Search Results - Record(s) 1 through 10 of 18 returned.

☐ 1. Document ID: US 20030087381 A1

L3: Entry 1 of 18

File: PGPB

May 8, 2003

PGPUB-DOCUMENT-NUMBER: 20030087381

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030087381 A1

TITLE: Metabolically engineered organisms for enhanced production of

oxaloacetate-derived biochemicals

PUBLICATION-DATE: May 8, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Gokarn, Ravi R. Plymouth MN US Eiteman, Mark A. Athens GA US Altman, Elliot Athens GA US

US-CL-CURRENT: 435/69.1; 435/193, 435/252.3, 435/252.33, 435/320.1, 536/23.2

2000000	Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K000C	Draw, Desc
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2. Document ID: US 20030040103 A1

L3: Entry 2 of 18

File: PGPB

Feb 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030040103

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030040103 A1

TITLE: Fermentation process for the preparation of L-amino acids using strains of the

family enterobacteriaceae

PUBLICATION-DATE: February 27, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Rieping, Mechthild Bielefeld DE Bastuck, Christine Bielefeld DE Hermann, Thomas Bielefeld DE Thierbach, Georg Bielefeld DE

US-CL-CURRENT: 435/252.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc
Image		•	,						4			

3. Document ID: US 20030017554 A1

L3: Entry 3 of 18

File: PGPB

Jan 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030017554

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030017554 A1

TITLE: Process for the fermentative preparation of L-amino acids using strains of the

enterobacteriaceae family

PUBLICATION-DATE: January 23, 2003

INVENTOR - INFORMATION:

NAME

Thierbach, Georg

CITY

STATE

COUNTRY

RULE-47

Rieping, Mechthild

Bielefeld Bielefeld

DE DE

US-CL-CURRENT: 435/106; 435/115, 435/116, 435/252.3

Full Title Citation Front Review Classification Date Reference Sequences Attachments Image

KWMC | Draw, Desc

4. Document ID: US 20020177566 A1

L3: Entry 4 of 18

File: PGPB

Nov 28, 2002

RULE-47

PGPUB-DOCUMENT-NUMBER: 20020177566

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020177566 A1

TITLE: Nucleic acid sequences associated with baldness

PUBLICATION-DATE: November 28, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Pritchard, David Seattle WA US Burmer, Glenna Seattle WA US

Brown, Joseph Seattle WA US · Demas, Vasiliki Seattle WA US

US-CL-CURRENT: 514/44; 424/70.1, 435/6, 435/7.21

Full Title Citation Front Review Classification Date Reference Sequences Attachments KWIC Draw, Desc

5. Document ID: US 20020102589 A1

L3: Entry 5 of 18

File: PGPB

Aug 1, 2002

PGPUB-DOCUMENT-NUMBER: 20020102589

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020102589 A1

TITLE: Microarrays and methods for evaluating activity of compounds having

estrogen-like activity

PUBLICATION-DATE: August 1, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Kiyama, Ryoiti Ibaraki JP Oguchi, Shinobu Tokyo JP

US-CL-CURRENT: 435/6; 702/20

Full Title Citation Front Review Classification Date Reference Sequences Attachments KMC Draw Desc

6. Document ID: US 20020012939 A1

L3: Entry 6 of 18 File: PGPB Jan 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020012939

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020012939 A1

TITLE: Methods for identifying drug targets based on genomic sequence data

PUBLICATION-DATE: January 31, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Palsson, Bernhard La Jolla CA US

US-CL-CURRENT: 435/6; 435/34, 702/20

Full Title Citation Front Review Classification Date Reference Sequences Attachments KMIC Draw. Desc

7. Document ID: US 20010055771 A1

L3: Entry 7 of 18 File: PGPB Dec 27, 2001

PGPUB-DOCUMENT-NUMBER: 20010055771

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010055771 A1

TITLE: Exploiting genomics in the search for new drugs

PUBLICATION-DATE: December 27, 2001

INVENTOR-INFORMATION:

CITY STATE COUNTRY RULE-47 NAME

Del Mar CA US Lockhart, David J. CA US Wodicka, Lisa San Diego Ho, Ming Hsiu San Jose CA US

US-CL-CURRENT: 435/6; 536/24.3

Title Citation Front Review Classification Date Reference Sequences Attachments KMMC - Drawi Desc Image

1 8. Document ID: US 6551795 B1

L3: Entry 8 of 18 File: USPT Apr 22, 2003

US-PAT-NO: 6551795

DOCUMENT-IDENTIFIER: US 6551795 B1

TITLE: Nucleic acid and amino acid sequences relating to pseudomonas aeruginosa for

diagnostics and therapeutics

DATE-ISSUED: April 22, 2003

INVENTOR - INFORMATION:

STATE NAME CITY ZIP CODE COUNTRY

Rubenfield; Marc J. Framingham MA Nolling; Jork Ouincy MA Deloughery; Craig Medford MA Bush; David Somerville MA

US-CL-CURRENT: 435/69.1; 435/253.3, 435/320.1, 435/325, 435/6, 536/23.1, 536/23.7

Full Title Citation Front Review Classification Date Reference Sequences Attachments KMMC Drawn Desc Image

9. Document ID: US 6524800 B2

L3: Entry 9 of 18 File: USPT Feb 25, 2003

US-PAT-NO: 6524800

DOCUMENT-IDENTIFIER: US 6524800 B2

TITLE: Exploiting genomics in the search for new drugs

DATE-ISSUED: February 25, 2003

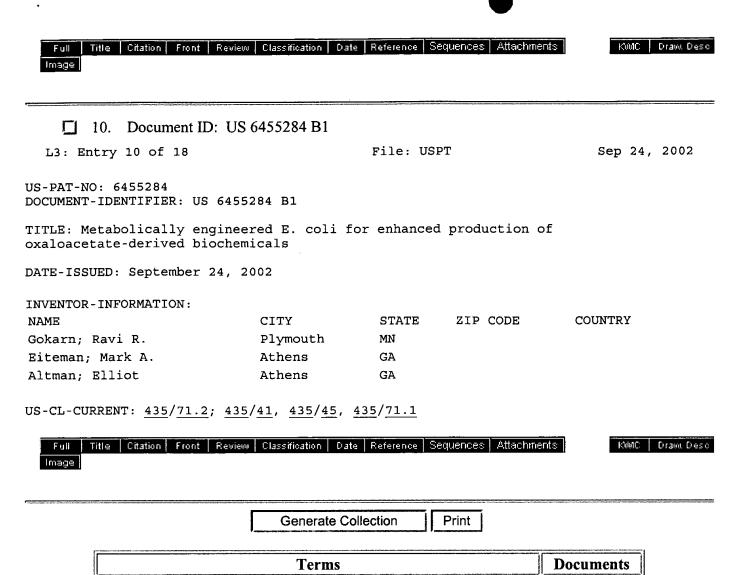
INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Lockhart; David J. Del Mar CA Wodicka; Lisa San Diego CA Ho; Ming Hsiu San Jose CA

US-CL-CURRENT: 435/6; 435/287.2, 435/4, 435/7.1, 435/91.2, 536/23.1, 536/24.3

18



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COUNTRY

Search Results - Record(s) 11 through 18 of 18 returned.

☐ 11. Document ID: US 6333155 B1

L3: Entry 11 of 18

File: USPT

Dec 25, 2001

COUNTRY

US-PAT-NO: 6333155

DOCUMENT-IDENTIFIER: US 6333155 B1

TITLE: Exploiting genomics in the search for new drugs

DATE-ISSUED: December 25, 2001

INVENTOR-INFORMATION:

NAME CITY STATE

Lockhart; David J. Del Mar CA
Wodicka; Lisa San Diego CA

Ho; Ming Hsiu San Jose CA

US-CL-CURRENT: 435/6; 435/91.2, 536/23.1, 536/24.3, 536/24.31, 536/24.33

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw Descrimage

☐ 12. Document ID: WO 229080 A2

L3: Entry 12 of 18

File: EPAB

Apr 11, 2002

PUB-NO: WO000229080A2

DOCUMENT-IDENTIFIER: WO 229080 A2

TITLE: FERMENTATION PROCESS FOR THE PREPARATION OF L-AMINO ACIDS USING STRAINS OF THE

FAMILY ENTEROBACTERIACEAE

PUBN-DATE: April 11, 2002

INVENTOR-INFORMATION:

NAME RIEPING, MECHTHILD

BASTUCK, CHRISTINE

HERMANN, THOMAS

THIERBACH, GEORG

INT-CL (IPC): C12 P 13/04; C12 P 13/08; C12 N 1/21; C12 N 15/11; C12 N 15/60

EUR-CL (EPC): C12P013/06; C12N015/52, C12P013/08, C12R001/19

Full Title Citation Front Review Classification Date Reference Sequences Attachments Image

KWMC - Draw, Desc

13. Document ID: WO 200227000 A1 AU 200195580 A DE 10047866 A1 US 20020086374 A1

L3: Entry 13 of 18

File: DWPI

Apr 4, 2002

DERWENT-ACC-NO: 2002-394241

DERWENT-WEEK: 200252

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TITLE: New polynucleotide from coryneform bacteria coding for dep67 gene, where overexpression of the gene provides improved production of L-amino acids particularly L-lysine in corynebacterium glutamicum

INVENTOR: BATHE, B; FARWICK, M; HERMANN, T; HUTHMACHER, K; PFEFFERLE, W

PRIORITY-DATA: 2000DE-1047866 (September 27, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 200227000 A1	April 4, 2002	E	042	C12N015/77
AU 200195580 A	April 8, 2002		000	C12N015/77
DE 10047866 A1	April 11, 2002		000	C12N001/21
US 20020086374 A1	July 4, 2002		000	C12P013/08

INT-CL (IPC): $\underline{\text{C07}}$ $\underline{\text{H}}$ $\underline{21/00}$; $\underline{\text{C07}}$ $\underline{\text{H}}$ $\underline{21/04}$; $\underline{\text{C07}}$ $\underline{\text{K}}$ $\underline{14/34}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{1/21}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{5/10}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{15/74}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{15/77}$; $\underline{\text{C12}}$ $\underline{\text{P}}$ $\underline{13/04}$; $\underline{\text{C12}}$ $\underline{\text{P}}$ $\underline{13/08}$; $\underline{\text{C12}}$ $\underline{\text{P}}$ $\underline{21/02}$; $\underline{\text{C12}}$ $\underline{\text{Q}}$ $\underline{1/68}$

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KWMC | Draww Desc

14. Document ID: EP 1317547 A1 WO 200222828 A1 DE 10120095 A1 US 20020042105 A1 AU 200182132 A

L3: Entry 14 of 18

File: DWPI

Jun 11, 2003

DERWENT-ACC-NO: 2002-351892

DERWENT-WEEK: 200339

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TITLE: New protein kinase B, pknB gene from corynebacteria, useful as hybridization probe and overexpression of which gene in corynebacteria is useful for producing L-amino acids, in particular L-lysine

INVENTOR: BATHE, B; FARWICK, M; HANS, S; HERMANN, T

PRIORITY-DATA: 2001DE-1020095 (April 25, 2001), 2000DE-1044912 (September 12, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 1317547 A1	June 11, 2003	E	000	C12N015/54
WO 200222828 A1	March 21, 2002	Е	046	C12N015/54
DE 10120095 A1	March 28, 2002		000	C12N015/54
US 20020042105 A1	April 11, 2002		000	C12P013/04
AU 200182132 A	March 26, 2002		000	C12N015/54

INT-CL (IPC): $\underline{\text{C07}}$ $\underline{\text{H}}$ $\underline{21/00}$; $\underline{\text{C07}}$ $\underline{\text{H}}$ $\underline{21/04}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{1/21}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{9/00}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{9/12}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{1/21}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{9/00}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{9/12}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{1/68}$

Full Title Citation Front Review Classification Date Reference Sequences Attachments Image

KWMC | Drawn Desc

15. Document ID: US 20030100080 A1 WO 200220806 A1 DE 10109685 A1 AU 200179755 A EP 1315820 A1

L3: Entry 15 of 18

File: DWPI

May 29, 2003

DERWENT-ACC-NO: 2002-463087

DERWENT-WEEK: 200337

COPYRIGHT 2003 DERWENT INFORMATION LTD

TITLE: Novel sahH gene from coryneform bacteria useful as probe to isolate genes coding for adenosyl homocysteinase, and overexpression of which gene in coryneform bacteria is useful for producing amino acids, e.g. L-lysine

INVENTOR: BREHME, J; FARWICK, M; HUTHMACHER, K; PFEFFERLE, W; BINDER, M; GREISSINGER, D; THIERBACH, G

PRIORITY-DATA: 2001DE-1009685 (February 28, 2001), 2000DE-1044706 (September 9, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20030100080 A1	May 29, 2003		000	C12P013/04
WO 200220806 A1	March 14, 2002	E	053	C12N015/60
DE 10109685 A1	April 11, 2002		000	C12N015/55
AU 200179755 A	March 22, 2002		000	C12N015/60
EP 1315820 A1	June 4, 2003	E	000	C12N015/60

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KMMC Draw Desc

16. Document ID: WO 200220771 A2 US 20020106672 A1 DE 10108838 A1 AU 200179804 A

L3: Entry 16 of 18

File: DWPI

Mar 14, 2002

DERWENT-ACC-NO: 2002-351778

DERWENT-WEEK: 200254

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TITLE: Novel polynucleotide from Coryneform bacteria coding for hisC2 gene, useful as hybridization probe for detecting DNA to isolate nucleic acids, polynucleotides or genes coding for transcription regulator hisC2

INVENTOR: BATHE, B; FARWICK, M; HUTHMACHER, K; PFEFFERLE, W

PRIORITY-DATA: 2001DE-1008838 (February 23, 2001), 2000DE-1044709 (September 9, 2000)

PATENT-FAMILY:

	NID NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
Ŀ	PUB-NO	PUB-DATE	DANGUAGE	PAGES	MAIN-IPC
V	VO 200220771 A2	March 14, 2002	E	036	C12N015/10
Į	JS 20020106672 A1	August 8, 2002		000	C12Q001/68
r	E 10108838 A1	April 4, 2002		000	C12N015/54
Z	AU 200179804 A	March 22, 2002		000	C12N015/10

INT-CL (IPC): $\underline{\text{C07}}$ $\underline{\text{H}}$ $\underline{21/04}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{1/21}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{9/10}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{15/10}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{15/54}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{13/04}$; $\underline{\text{C12}}$ $\underline{\text{P}}$ $\underline{13/08}$; $\underline{\text{C12}}$ $\underline{\text{P}}$ $\underline{21/02}$; $\underline{\text{C12}}$ $\underline{\text{Q}}$ $\underline{1/68}$

Full Title Citation Front Review Classification Date Reference Sequences Attachments KMIC Draw. Desc Image

17. Document ID: WO 200218599 A1 US 20020106755 A1 DE 10136984 A1 AU 200189850 A

L3: Entry 17 of 18

File: DWPI

Mar 7, 2002

DERWENT-ACC-NO: 2002-315544

DERWENT-WEEK: 200254

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TITLE: New sigM gene from coryneform bacteria useful as probe to isolate genes which code for sigma factor M, and overexpression of which gene in coryneform bacteria is useful for producing amino acids, especially L-lysine

INVENTOR: BASTUCK, C; BATHE, B ; FARWICK, M ; HERMANN, T ; PFEFFERLE, W

PRIORITY-DATA: 2001DE-1036984 (July 28, 2001), 2000DE-1043337 (September 2, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 200218599 A1	March 7, 2002	E	042	C12N015/31
US 20020106755 A1	August 8, 2002		000	C12P013/08
DE 10136984 A1	April 18, 2002		000	C12N015/11
AU 200189850 A	March 13, 2002		000	C12N015/31

INT-CL (IPC): $\underline{\text{C07}}$ $\underline{\text{H}}$ $\underline{21/04}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{1/21}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{9/10}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{15/11}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{15/31}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{15/74}$; $\underline{\text{C12}}$ P $\underline{13/04}$; $\underline{\text{C12}}$ P $\underline{13/08}$; $\underline{\text{C12}}$ P $\underline{21/02}$; $\underline{\text{C12}}$ Q $\underline{1/68}$; $\underline{\text{C12}}$ R $\underline{1:19}$; $\underline{\text{C12}}$ N $\underline{1/21}$

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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18. Document ID: WO 200218598 A1 US 20020106756 A1 DE 10133427 A1 AU 200182084 A

L3: Entry 18 of 18

File: DWPI

Mar 7, 2002

DERWENT-ACC-NO: 2002-315543

DERWENT-WEEK: 200254

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TITLE: New sigH gene from coryneform bacteria useful as a probe to isolate genes which code for sigma factor H, and overexpression of which gene in coryneform bacteria is useful for producing amino acids, especially L-lysine

INVENTOR: BATHE, B; FARWICK, M; HERMANN, T; MARX, A; PFEFFERLE, W; RIEPING, M;

SCHROEDER, I ; SCHRODER, I

PRIORITY-DATA: 2001DE-1033427 (July 10, 2001), 2000DE-1043333 (September 2, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 200218598 A1	March 7, 2002	E	045	C12N015/31
US 20020106756 A1	August 8, 2002		000	C12P013/08
DE 10133427 A1	March 14, 2002		000	C12N001/21
AU 200182084 A	March 13, 2002		000	C12N015/31

INT-CL (IPC): $\underline{\text{CO7}}$ $\underline{\text{H}}$ $\underline{21/00}$; $\underline{\text{C07}}$ $\underline{\text{H}}$ $\underline{21/04}$; $\underline{\text{C07}}$ $\underline{\text{K}}$ $\underline{14/34}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{1/21}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{9/10}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{15/52}$; $\underline{\text{C12}}$ $\underline{\text{P}}$ $\underline{13/04}$; $\underline{\text{C12}}$ $\underline{\text{P}}$ $\underline{13/08}$; $\underline{\text{C12}}$ $\underline{\text{P}}$ $\underline{21/02}$; $\underline{\text{C12}}$ $\underline{\text{Q}}$ $\underline{1/68}$

Full Title Citation Front Review Classification Date Reference Sequences Atta Clip Img Image	achments KMC Draw De
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Terms	Documents
L2 same (threon\$5 or lysin\$5 or isoleuci\$5 or valin\$3)	18

Display Format: Change Format

Previous Page Next Page

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LOGINID:ssspta1652dmr

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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FILE 'HOME' ENTERED AT 12:22:46 ON 24 JUL 2003

=> index bioscience medicine

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 12:23:16 ON 24 JUL 2003

70 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view search error messages that display as 0* with SET DETAIL OFF.

- => s (pep? (s) carboxykinas?) or (phosphoenol?(s)carboxikinas?)
 - 3 FILE ADISCTI
 - 3 FILE ADISINSIGHT
 - 1 FILE ADISNEWS
 - 70 FILE AGRICOLA
 - 64 FILE AQUASCI
 - 7 FILE BIOBUSINESS
 - 1033 FILE BIOSIS
 - 51 FILE BIOTECHABS
 - 51 FILE BIOTECHDS
 - 384 FILE BIOTECHNO
 - 349 FILE CABA
 - 170 FILE CANCERLIT
 - 1163 FILE CAPLUS
 - 3 FILE CEABA-VTB
 - 1 FILE CIN
 - 17 FILE CONFSCI
 - 2 FILE CROPU
 - 21 FILES SEARCHED...
 - 1 FILE DDFB
 - 55 FILE DDFU
 - 253 FILE DGENE
 - 1 FILE DRUGB
 - 2 FILE DRUGNL
 - 63 FILE DRUGU
 - 1 FILE DRUGUPDATES
 - 8 FILE EMBAL
 - 693 FILE EMBASE
 - 342 FILE ESBIOBASE
 - 22* FILE FEDRIP
 - 34 FILES SEARCHED...
 - 1 FILE FROSTI
 - 8 FILE FSTA
 - 260 FILE GENBANK
 - 2 FILE HEALSAFE
 - 28 FILE IFIPAT
 - 21 FILE JICST-EPLUS
 - 315 FILE LIFESCI
 - 776 FILE MEDLINE
 - 25 FILE NIOSHTIC
 - 3 FILE NTIS
 - 22 FILE OCEAN
 - 247 FILE PASCAL
 - 1 FILE PHAR
 - 2 FILE PROMT

58 FILES SEARCHED...

- 641 FILE SCISEARCH
- 351 FILE TOXCENTER
- 153 FILE USPATFULL
 - 6 FILE USPAT2
 - 4 FILE VETU
 - 12 FILE WPIDS
 - 12 FILE WPINDEX
- 49 FILES HAVE ONE OR MORE ANSWERS, 70 FILES SEARCHED IN STNINDEX
- L1 QUE (PEP? (S) CARBOXYKINAS?) OR (PHOSPHOENOL?(S) CARBOXIKINAS?)

=> d rannk

DISPLAY L# IS NOT VALID IN STNINDEX

Answer set was created in a file. Enter DISPLAY HISTORY to see where the answer set was created. Use the File command to change to that file, then display the answer.

```
=> d rank
         1163
               CAPLUS
F2
         1033
               BIOSIS
F3
          776
               MEDLINE
         693
               EMBASE
F4
F5
          641
               SCISEARCH
          384
F6
               BIOTECHNO
         351
               TOXCENTER
F7
         349
               CABA
F8
         342
               ESBIOBASE
F9
F10
         315
               LIFESCI
F11
          260
               GENBANK
          253
              DGENE
F12
         247 PASCAL
F13
         170 CANCERLIT
F14
         153 USPATFULL
F15
F16
          70 AGRICOLA
          64
              AQUASCI
F17
               DRUGU
F18
          63
              DDFU
F19
          55
          51 BIOTECHABS
F20
F21
          51 BIOTECHDS
F22
          28
               IFIPAT
F23
          25
               NIOSHTIC
               OCEAN
F24
          22
          22* FEDRIP
F25
F26
          21
               JICST-EPLUS
F27
          17
               CONFSCI
F28
           12
               WPIDS
               WPINDEX
F29
           12
              EMBAL
F30
           8
F31
            8
              FSTA
F32
           7
               BIOBUSINESS
F33
           6
               USPAT2
F34
            4
               VETU
F35
            3
              ADISCTI
F36
            3
              ADISINSIGHT
F37
               CEABA-VTB
F38
               NTIS
F39
           2
               CROPU
F40
               DRUGNL
F41
              HEALSAFE
F42
              PROMT
F43
              ADISNEWS
F44
               CIN
F45
               DDFB
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F46 1 DRUGB

F47 1 DRUGUPDATES

F48 1 FROSTI F49 1 PHAR

=> file f1-f15 COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 3.30 3.51

FULL ESTIMATED COST

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SEARCH ENDED BY USER

=> s (pep? (s) carboxykinas?) or (phosphoenol?(s)carboxikinas?) or pcka?
13 FILES SEARCHED...

- L2 7490 (PEP? (S) CARBOXYKINAS?) OR (PHOSPHOENOL?(S) CARBOXIKINAS?) OR PCKA?
- => s 12 (s) (coli? or enterobacter? or glutamicu? or coryne?)
 L3 434 L2 (S) (COLI? OR ENTEROBACTER? OR GLUTAMICU? OR CORYNE?)
- => s 13 (s) (amino? or threon? or valin? or isoleuc? or lysin?)
 - 7 FILES SEARCHED...
 - 13 FILES SEARCHED...
- L4 175 L3 (S) (AMINO? OR THREON? OR VALIN? OR ISOLEUC? OR LYSIN?)
- => dup rem 14
 DUPLICATE IS NOT AVAILABLE IN 'GENBANK, DGENE'.
 ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
 PROCESSING COMPLETED FOR L4
 L5 108 DUP REM L4 (67 DUPLICATES REMOVED)
- => d ti 15 1-108
- L5 ANSWER 1 OF 108 CAPLUS COPYRIGHT 2003 ACS on STNDUPLICATE 1
- TI Genetically modified Escherichia coli for the fermentative production of threonine containing an attenuated aceK gene
- L5 ANSWER 2 OF 108 CAPLUS COPYRIGHT 2003 ACS on STNDUPLICATE 2
- TI Genetically modified Escherichia coli for the fermentative production of threonine containing an attenuated aceB gene
- L5 ANSWER 3 OF 108 CAPLUS COPYRIGHT 2003 ACS on STNDUPLICATE 3
- TI Genetically modified Escherichia coli for the fermentative production of threonine containing an attenuated aspA gene
- L5 ANSWER 4 OF 108 CAPLUS COPYRIGHT 2003 ACS on STNDUPLICATE 4
- TI Genetically modified Escherichia coli for the fermentative production of threonine containing an attenuated ugpB gene
- L5 ANSWER 5 OF 108 CAPLUS COPYRIGHT 2003 ACS on STNDUPLICATE 5
- TI Improvement of Corynebacterium glutamicum amino acid production by site-directed deletion of pck (PEP carboxykinase) gene
- L5 ANSWER 6 OF 108 CAPLUS COPYRIGHT 2003 ACS on STN
- TI Biosynthetic preparation of non-aromatic L-amino acids in Enterobacteriaceae bacteria
- L5 ANSWER 7 OF 108 CAPLUS COPYRIGHT 2003 ACS on STN
- TI Genetically modified Escherichia coli overexpressing genes iclR and fadR for fermentative prodn. of threonine
- L5 ANSWER 8 OF 108 CAPLUS COPYRIGHT 2003 ACS on STN
- TI Genetically modified Escherichia coli overexpressing genes sucC and sucD for the fermentative production of threonine
- L5 ANSWER 9 OF 108 CAPLUS COPYRIGHT 2003 ACS on STN
- TI Genetically modified Escherichia coli overexpressing genes sucA and sucB for the fermentative production of threonine
- L5 ANSWER 10 OF 108 CAPLUS COPYRIGHT 2003 ACS on STN
- TI Genetically modified Escherichia coli overexpressing gene sodA for the fermentative production of threonine
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- TI Genetically modified Escherichia coli overexpressing genes rseA or rseC for the fermentative production of threonine
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- TI Genetically modified Escherichia coli overexpressing gene talB for the fermentative production of threonine
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- TI Genetically modified Escherichia coli overexpressing gene pfkB for the fermentative production of threonine
- L5 ANSWER 14 OF 108 CAPLUS COPYRIGHT 2003 ACS on STN
- TI Genetically modified Escherichia coli overexpressing gene pykF for the fermentative production of threonine
- L5 ANSWER 15 OF 108 CAPLUS COPYRIGHT 2003 ACS on STN
- TI Genetically modified Escherichia coli overexpressing gene phoE for the fermentative production of threonine
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- TI Genetically modified Escherichia coli for the fermentative production of threonine
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- TI Genetically modified Escherichia coli overexpressing genes phoB and phoR for the fermentative production of threonine
- L5 ANSWER 18 OF 108 CAPLUS COPYRIGHT 2003 ACS on STN
- TI Genetically modified Escherichia coli overexpressing gene malE for the fermentative production of threonine
- L5 ANSWER 19 OF 108 CAPLUS COPYRIGHT 2003 ACS on STN
- TI Genetically modified Escherichia coli overexpressing genes of the cysteine biosynthesis pathway for the fermentative production of threonine
- L5 ANSWER 20 OF 108 CAPLUS COPYRIGHT 2003 ACS on STN
- TI Genetically modified Escherichia coli overexpressing gene dps for the fermentative production of threonine
- L5 ANSWER 21 OF 108 CAPLUS COPYRIGHT 2003 ACS on STN
- TI Genetically modified Escherichia coli overexpressing genes crr, ptsH, and ptsI for the fermentative production of threonine
- L5 ANSWER 22 OF 108 CAPLUS COPYRIGHT 2003 ACS on STN
- TI Genetically modified Escherichia coli overexpressing gene hns for the fermentative production of threonine
- L5 ANSWER 23 OF 108 CAPLUS COPYRIGHT 2003 ACS on STN
- TI Genetically modified Escherichia coli overexpressing gene ptsG for the fermentative production of threonine
- L5 ANSWER 24 OF 108 CAPLUS COPYRIGHT 2003 ACS on STN
- TI Genetically modified Escherichia coli overexpressing gene mopB for the fermentative production of threonine
- L5 ANSWER 25 OF 108 CAPLUS COPYRIGHT 2003 ACS on STN
- TI Genetically modified Escherichia coli overexpressing gene lrp for the fermentative production of threonine
- L5 ANSWER 26 OF 108 CAPLUS COPYRIGHT 2003 ACS on STN
- TI Genetically modified Escherichia coli overexpressing gene fba for the fermentative production of threonine
- L5 ANSWER 27 OF 108 CAPLUS COPYRIGHT 2003 ACS on STN
- TI Genetically modified Escherichia coli overexpressing genes ahpC and ahpF for the fermentative production of threonine
- L5 ANSWER 28 OF 108 CAPLUS COPYRIGHT 2003 ACS on STN
- TI Genetically modified Escherichia coli strains for the fermentative

production of threonine

- L5 ANSWER 29 OF 108 CAPLUS COPYRIGHT 2003 ACS on STN
- TI Genetically modified Escherichia coli overexpressing gene pgm for the fermentative production of threonine
- L5 ANSWER 30 OF 108 USPATFULL on STN
- TI Metabolically engineered organisms for enhanced production of oxaloacetate-derived biochemicals
- L5 ANSWER 31 OF 108 USPATFULL on STN
- TI Human lyases and associated proteins
- L5 ANSWER 32 OF 108 USPATFULL on STN
- TI Identification of modulatory molecules using inducible promoters
- L5 ANSWER 33 OF 108 USPATFULL on STN
- TI Novel human genes and gene expression products I
- L5 ANSWER 34 OF 108 USPATFULL on STN
- TI Fermentation process for the preparation of L-amino acids using strains of the family enterobacteriaceae
- L5 ANSWER 35 OF 108 USPATFULL on STN
- TI Process for the fermentative preparation of L-amino acids using strains of the enterobacteriaceae family
- L5 ANSWER 36 OF 108 USPATFULL on STN
- TI Nucleic acid and amino acid sequences relating to Acinetobacter baumannii for diagnostics and therapeutics
- L5 ANSWER 37 OF 108 USPATFULL on STN
- TI Chlamydia pneumoniae polynucleotides and uses thereof
- L5 ANSWER 38 OF 108 USPATFULL on STN
- TI Nucleic acid and amino acid sequences relating to pseudomonas aeruginosa for diagnostics and therapeutics
- L5 ANSWER 39 OF 108 USPATFULL on STN
- TI Nucleotide sequence of the Haemophilus influenzae Rd genome, fragments thereof, and uses thereof
- L5 ANSWER 40 OF 108 USPATFULL on STN
- TI Methods for the inhibition of epstein-barr virus transmission employing anti-viral peptides capable of abrogating viral fusion and transmission
- L5 ANSWER 41 OF 108 USPATFULL on STN
- TI Nucleotide sequence of the Haemophilus influenzae Rd genome, fragments thereof, and uses thereof
- L5 ANSWER 42 OF 108 CAPLUS COPYRIGHT 2003 ACS on STNDUPLICATE 6
- TI Fermentation process for the preparation of L-amino acids using recombinant strains of the family Enterobacteriaceae
- L5 ANSWER 43 OF 108 CAPLUS COPYRIGHT 2003 ACS on STN
- TI Production of L-amino acids Enterobacteriaceae strains containing an attenuated aceA gene
- L5 ANSWER 44 OF 108 CAPLUS COPYRIGHT 2003 ACS on STN
- TI Production of L-amino acids with Enterobacteriaceae strains containing an attenuated dgsA gene
- L5 ANSWER 45 OF 108 CAPLUS COPYRIGHT 2003 ACS on STN
- TI Deletion of E. coli fruR gene encoding ribonucleic acid formation factors for L-Threonine biosynthesis

- L5 ANSWER 46 OF 108 CAPLUS COPYRIGHT 2003 ACS on STN
- TI Sequence of pepC gene from corynebacteria and use thereof in synthesis of L-lysine
- L5 ANSWER 47 OF 108 CAPLUS COPYRIGHT 2003 ACS on STN
- TI Use of ptsH gene of Corynebacterium glutamicum for L-lysine biosynthesis
- L5 ANSWER 48 OF 108 CAPLUS COPYRIGHT 2003 ACS on STN
- TI Nucleotide sequences coding for the genes sucC and sucD
- L5 ANSWER 49 OF 108 CAPLUS COPYRIGHT 2003 ACS on STN
- TI Fermentative production of L-amino acids with poxB mutants of Enterobacteriaceae
- L5 ANSWER 50 OF 108 USPATFULL on STN
- TI Novel Polynucleotides
- L5 ANSWER 51 OF 108 USPATFULL on STN
- TI NEW NUCLEOTIDE SEQUENCES WHICH CODE FOR PCK GENE
- L5 ANSWER 52 OF 108 USPATFULL on STN
- TI Expressed sequences of arabidopsis thaliana
- L5 ANSWER 53 OF 108 USPATFULL on STN
- TI Escherichia coli csrB gene, RNA encoded thereby, and methods of use thereof
- L5 ANSWER 54 OF 108 USPATFULL on STN
- TI Methods for identifying drug targets based on genomic sequence data
- L5 ANSWER 55 OF 108 USPATFULL on STN
- TI Methods for inhibition of membrane fusion-associated events, including respiratory syncytial virus transmission
- L5 ANSWER 56 OF 108 USPATFULL on STN
- TI Metabolically engineered E. coli for enhanced production of oxaloacetate-derived biochemicals
- L5 ANSWER 57 OF 108 USPATFULL on STN
- TI Materials and methods for the production of D-phenylalanine
- L5 ANSWER 58 OF 108 USPATFULL on STN
- TI Computer readable genomic sequence of Haemophilus influenzae Rd, fragments thereof, and uses thereof
- L5 ANSWER 59 OF 108 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 7
- TI Metabolic flux responses to pyruvate kinase knockout in Escherichia coli.
- L5 ANSWER 60 OF 108 CAPLUS COPYRIGHT 2003 ACS on STN
- TI The sucC and sucD genes of Corynebacterium glutamicum and their use in increasing yields of lysine in fermentation
- L5 ANSWER 61 OF 108 CAPLUS COPYRIGHT 2003 ACS on STN
- TI Isolation of nucleotide sequences encoding PEP carboxykinase
- L5 ANSWER 62 OF 108 USPATFULL on STN
- TI Escherichia coli csrA gene, protein encoded thereby, and methods of use thereof
- L5 ANSWER 63 OF 108 USPATFULL on STN
- TI Human respiratory syncytial virus peptides with antifusogenic and antiviral activities

- L5 ANSWER 64 OF 108 USPATFULL on STN
- TI Escherichia coli CSRB gene and RNA encoded thereby
- L5 ANSWER 65 OF 108 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 8
- TI Crystal structure of the dimeric phosphoenolpyruvate carboxykinase (PEPCK) from Trypanosoma cruzi at 2 ANG resolution.
- L5 ANSWER 66 OF 108 CAPLUS COPYRIGHT 2003 ACS on STNDUPLICATE 9
- TI Characterization of the phosphoenolpyruvate carboxykinase gene from Corynebacterium glutamicum and significance of the enzyme for growth and amino acid production
- L5 ANSWER 67 OF 108 SCISEARCH COPYRIGHT 2003 THOMSON ISI on STNDUPLICATE 10
- TI Metabolic consequences of altered phosphoenolpyruvate carboxykinase activity in Corynebacterium glutamicum reveal anaplerotic regulation mechanisms in vivo
- L5 ANSWER 68 OF 108 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 11
- TI Molecular modeling of the complexes between Saccharomyces cerevisiae phosphoenolpyruvate carboxykinase and the ATP analogs pyridoxal 5'-diphosphoadenosine and pyridoxal 5'-triphosphoadenosine. Specific labeling of lysine 290.
- L5 ANSWER 69 OF 108 LIFESCI COPYRIGHT 2003 CSA on STN
- TI Utilizing Succinic Acid as a Glucose Adjunct in Fed-Batch Fermentation: Is Butane a Feedstock Option in Microbe-Catalyzed Synthesis?
- L5 ANSWER 70 OF 108 USPATFULL on STN
- TI Escherichia coli csrA gene, protein encoded thereby, and methods of use thereof
- L5 ANSWER 71 OF 108 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 12
- TI Identification of reactive conserved histidines in phosphoenolpyruvate carboxykinases from Escherichia coli and Saccharomyces cerevisiae.
- L5 ANSWER 72 OF 108 SCISEARCH COPYRIGHT 2003 THOMSON ISI on STN
- TI Identification of reactive conserved histidines in phosphoenolpyruvate carboxykinases from Escherichia coli and Saccharomyces cerevisiae
- L5 ANSWER 73 OF 108 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 13
- TI Identification of reactive lysines in phosphoenolpyruvate carboxykinases from Escherichia coli and Saccharomyces cerevisiae.
- L5 ANSWER 74 OF 108 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 14
- TI Effects of phosphoenolpyruvate carboxylase deficiency on metabolism and lysine production in Corynebacterium glutamicum.
- L5 ANSWER 75 OF 108 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 15
- TI Regulation of phospho(enol)-pyruvate-and oxaloacetate-converting enzymes in Corynebacterium glutamicum.
- L5 ANSWER 76 OF 108 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 16
- TI Identification and molecular characterization of csrA, a pleiotropic gene from Escherichia coli that affects glycogen biosynthesis, gluconeogenesis, cell size, and surface properties.
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- TI Reactivity of cysteinyl, arginyl, and lysyl residues of Escherichia coli phosphoenolpyruvate carboxykinase against group-specific chemical reagents.
- L5 ANSWER 78 OF 108 CAPLUS COPYRIGHT 2003 ACS on STNDUPLICATE 18
- TI Phosphoenolpyruvate carboxylase in Corynebacterium glutamicum is dispensable for growth and lysine production
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- TI SITE-DIRECTED MUTAGENESIS AND DNA SEQUENCE OF PCKA OF RHIZOBIUM NGR234 ENCODING PHOSPHOENOLPYRUVATE CARBOXYKINASE GLUCONEOGENESIS AND HOST-DEPENDENT SYMBIOTIC PHENOTYPE.
- L5 ANSWER 82 OF 108 SCISEARCH COPYRIGHT 2003 THOMSON ISI on STN
- TI SITE-DIRECTED MUTAGENESIS AND DNA-SEQUENCE OF PCKA OF RHIZOBIUM NGR234, ENCODING PHOSPHOENOLPYRUVATE CARBOXYKINASE GLUCONEOGENESIS AND HOST-DEPENDENT SYMBIOTIC PHENOTYPE
- L5 ANSWER 83 OF 108 GENBANK.RTM. COPYRIGHT 2003 on STN

TITLE (TI): The complete genome sequence of Mycobacterium bovis
TITLE (TI): Direct Submission

L5 ANSWER 84 OF 108 GENBANK.RTM. COPYRIGHT 2003 on STN

TITLE (TI): Direct Submission

L5 ANSWER 85 OF 108 GENBANK.RTM. COPYRIGHT 2003 on STN

TITLE (TI): Complete genome sequence of a multiple drug resistant

Salmonella enterica serovar Typhi CT18

TITLE (TI): Direct Submission

L5 ANSWER 86 OF 108 GENBANK.RTM. COPYRIGHT 2003 on STN

TITLE (TI): Genome sequence of Yersinia pestis, the causative agent

of plaque

TITLE (TI): Direct Submission

L5 ANSWER 87 OF 108 GENBANK.RTM. COPYRIGHT 2003 on STN

TITLE (TI): The genome sequence of the food-borne pathogen

Campylobacter jejuni reveals hypervariable sequences

TITLE (TI): Direct Submission

- L5 ANSWER 88 OF 108 DGENE COPYRIGHT 2003 THOMSON DERWENT on STN
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- L5 ANSWER 89 OF 108 DGENE COPYRIGHT 2003 THOMSON DERWENT on STN
- TI Fermentative production of amino acids in Enterobacteriaceae, useful e.g. in animal nutrition, improved by suppression of specific genes -
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- L5 ANSWER 106 OF 108 DGENE COPYRIGHT 2003 THOMSON DERWENT on STN
- TI Fermentative production of amino acids in Enterobacteriaceae, useful e.g.

in animal nutrition, improved by suppression of specific genes

- ANSWER 107 OF 108 DGENE COPYRIGHT 2003 THOMSON DERWENT on STN L5
- Preparation of amino acid which does not react with transaminase ΤI
- ANSWER 108 OF 108 DGENE COPYRIGHT 2003 THOMSON DERWENT on STN 1.5
- Preparation of amino acid which does not react with transaminase TΤ

=> d his

(FILE 'HOME' ENTERED AT 12:22:46 ON 24 JUL 2003)

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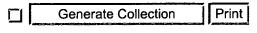
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- 4 FILE VETU
- 12 FILE WPIDS
 12 FILE WPINDEX
- L1 QUE (PEP? (S) CARBOXYKINAS?) OR (PHOSPHOENOL?(S) CARBOXIKINAS?)

FILE 'CAPLUS, BIOSIS, MEDLINE, EMBASE, SCISEARCH, BIOTECHNO, TOXCENTER, CABA, ESBIOBASE, LIFESCI, GENBANK, DGENE, PASCAL, CANCERLIT, USPATFULL' ENTERED AT 12:26:55 ON 24 JUL 2003

- L2 7490 S (PEP? (S) CARBOXYKINAS?) OR (PHOSPHOENOL?(S)CARBOXIKINAS?) OR
- L3 434 S L2 (S) (COLI? OR ENTEROBACTER? OR GLUTAMICU? OR CORYNE?)
- L4 175 S L3 (S) (AMINO? OR THREON? OR VALIN? OR ISOLEUC? OR LYSIN?)



10/14073

L7: Entry 13 of 24

File: PGPB

Mar 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030049803

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030049803 A1

TITLE: Process for the production of L-amino acids using strains of the family enterobacteriaceae that contain an attenuated fruR gene

PUBLICATION-DATE: March 13, 2003

INVENTOR - INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Rieping, Mechthild

Bielefeld

DE

Hermann, Thomas

Bielefeld

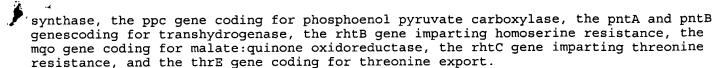
US-CL-CURRENT: 435/106; 435/252.3

CLAIMS:

What is claimed is:

fructose repressor 1991

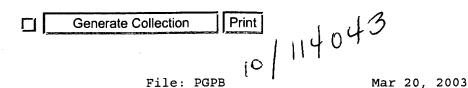
- 1. A process for the production of an L-amino acid, comprising: (a) fermenting a microorganism of the family Enterobacteriaceae which produces the desired L-amino acid, in which the fruk gene or nucleotide sequences coding therefor are attenuated, in a medium; (b) enriching the medium or the cells of the microorganism in the L-amino acid, and (c) isolating the L-amino acid.
- 2. The process of claim 1, wherein the L-amino acid is L-threonine.
- 3. The process of claim 1, wherein the fruR gene or nucleotide sequences coding therefor are switched off.
- 4. The process of claim 1, wherein constituents of the fermentation medium and/or the biomass in its entirety or portions thereof remain in the isolated L-amino acid.
- 5. The process of claim 1, wherein one or more genes in the biosynthesis pathway of the L-amino acid are enhanced in the microorganism.
- 6. The process of claim 1, wherein the metabolic pathways that reduce the formation of the L-amino acid are at least partially switched off in the microorganism.
- 7. The process of claim 1, wherein the expression of the fruR gene or nucleotide sequences coding therefor is attenuated.
- 8. The process of claim 1, wherein the expression of the fruR gene or nucleotide sequences coding therefor is switched off.
- 9. The process of claim 1, wherein the regulatory and/or catalytic properties of the polypeptide for which the fruR encodes are reduced.
- 10. The process of claim 1, wherein in the microorganism one or more of the genes selected from the following group is enhanced: the thrABC operon coding for aspartate kinase, homoserine dehydrogenase, homoserine kinase and threonine synthase, the pyc gene coding for pyruvate carboxylase, the pps gene coding for phosphoenol pyruvate



- 11. The process of claim 1, wherein in the microorganism one or more of the genes selected from the following group is overexpressed: the thrABC operon coding for aspartate kinase, homoserine dehydrogenase, homoserine kinase and threonine synthase, the pyc gene coding for pyruvate carboxylase, the pps gene coding for phosphoenol pyruvate synthase, the ppc gene coding for phosphoenol pyruvate carboxylase, the pntA and pntB genescoding for transhydrogenase, the rhtB gene imparting homoserine resistance, the mqo gene coding for malate:quinone oxidoreductase, the rhtC gene imparting threonine resistance, and the thrE gene coding for threonine export.
- /12. The process of claim 1, wherein in the microorganism one or more of the genes selected from the following group is attenuated: the tdh gene coding for threonine dehydrogenase, the mdh gene coding for malate dehydrogenase, the gene product of the open reading frame (orf) yjfA, the gene product of the open reading frame (orf) ytfp, the pckA gene coding for phosphoenol pyruvate carboxykinase, the poxB gene coding for pyruvate oxidase, the aceA gene coding for isocitrate lyase, and the dgsA gene coding for the regulator of the phosphotransferase system.
 - 13. The process of claim 1, wherein in the microorganism one or more of the genes selected from the following group is switched off: the tdh gene coding for threonine dehydrogenase, the mdh gene coding for malate dehydrogenase, the gene product of the open reading frame (orf) yjfA, the gene product of the open reading frame (orf) ytfp, the pckA gene coding for phosphoenol pyruvate carboxykinase, the poxB gene coding for pyruvate oxidase, the aceA gene coding for isocitrate lyase, and the dgsA gene coding for the regulator of the phosphotransferase system.
 - 14. The process of claim 1, wherein in the microorganism the expression of one or more of the genes selected from the following group is reduced: the tdh gene coding for threonine dehydrogenase, the mdh gene coding for malate dehydrogenase, the gene product of the open reading frame (orf) yjfa, the gene product of the open reading frame (orf) ytfp, the pckA gene coding for phosphoenol pyruvate carboxykinase, the poxB gene coding for pyruvate oxidase, the aceA gene coding for isocitrate lyase, and the dgsA gene coding for the regulator of the phosphotransferase system.
 - 15. The process of claim 1, wherein the microorganism belongs to the genus Escherichia.
 - 16. The process of claim 1, wherein the microorganism belongs to the genus Erwinia.
 - 17. The process of claim 1, wherein the microorganism belongs to the genus Providencia.
 - 18. The process of claim 1, wherein the microorganism belongs to the genus Serratia.
 - 19. The process of claim 1, wherein the microorganism is an E. coli.
 - 20. The process of claim 1, wherein the microorganism is an Enterobacteriaceae selected from the group consisting of Escherichia coli MG442.DELTA.aceA, Escherichia coli TF427, Escherichia coli, Escherichia coli KY 10935, Escherichia coli VNIIgenetika MG442, Escherichia coli VNIIgenetika M1, Escherichia coli VNIIgenetika 472T23, Escherichia coli BKIIM B-3996, Escherichia coli kat 13, Escherichia coli KCCM-10132, Serratia marcescens HNr21, Serratia marcescens, and Serratia marcescens T2000.
 - 21. The process of claim 1, wherein the L-amino acid is selected from the group consisting of L-asparagine, L-serine, L-glutamate, L-glycine, L-alanine, L-cysteine, L-valine, L-methionine, L-isoleucine, L-leucine, L-tyrosine, L-phenylalanine, L-histidine, L-lysine, L-tryptophan, and L-arginine.

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WEST



PGPUB-DOCUMENT-NUMBER: 20030054503

PGPUB-FILING-TYPE: new

L7: Entry 12 of 24

DOCUMENT-IDENTIFIER: US 20030054503 A1

TITLE: Process for the production of L-amino acids using strains of the family enterobacteriaceae that contain an attenuated dgsA gene

PUBLICATION-DATE: March 20, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Rieping, Mechthild Bielefeld DE Hermann, Thomas Bielefeld DE

US-CL-CURRENT: 435/106; 435/252.33

CLAIMS:

What is claimed is:

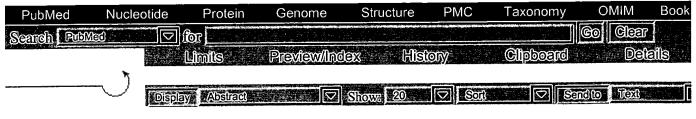
- 1. A process for the production of an L-amino acid, comprising: (a) fermenting a microorganism of the family Enterobacteriaceae which produces the desired L-amino acid, in which the dgsA gene or nucleotide sequences coding therefor are attenuated, in a medium; (b) enriching the medium or the cells of the microorganism in the L-amino acid, and (c) isolating the L-amino acid.
- 2. The process of claim 1, wherein the L-amino acid is L-threonine.
- 3. The process of claim 1, wherein the dgsA gene or nucleotide sequences coding therefor are switched off.
- 4. The process of claim 1, wherein constituents of the fermentation medium and/or the biomass in its entirety or portions thereof remain in the isolated L-amino acid.
- 5. The process of claim 1, wherein one or more genes in the biosynthesis pathway of the L-amino acid are enhanced in the microorganism.
- 6. The process of claim 1, wherein the metabolic pathways that reduce the formation of the L-amino acid are at least partially switched off in the microorganism.
- 7. The process of claim 1, wherein the expression of the dgsA gene or nucleotide sequences coding therefor is attenuated.
- 8. The process of claim 1, wherein the expression of the dgsA gene or nucleotide sequences coding therefor is switched off.
- 9. The process of claim 1, wherein the regulatory and/or catalytic properties of the polypeptide for which the dgsA encodes are reduced.
- 10. The process of claim 1, wherein in the microorganism one or more of the genes selected from the following group is enhanced: the thrABC operon coding for aspartate kinase, homoserine dehydrogenase, homoserine kinase and threonine synthase, the pyc gene coding for pyruvate carboxylase, the pps gene coding for phosphoenol pyruvate

- synthase, the ppc gene coding for phosphoenol pyruvate carboxylase, the pntA and pntB genes coding for transhydrogenase, the rhtB gene imparting homoserine resistance, the mgo gene coding for malate:quinone oxidoreductase, the rhtC gene imparting threonine resistance, and the thrE gene coding for threonine export.
 - 11. The process of claim 1, wherein in the microorganism one or more of the genes selected from the following group is overexpressed: the thrABC operon coding for aspartate kinase, homoserine dehydrogenase, homoserine kinase and threonine synthase, the pyc gene coding for pyruvate carboxylase, the pps gene coding for phosphoenol pyruvate synthase, the ppc gene coding for phosphoenol pyruvate carboxylase, the pntA and pntB genes coding for transhydrogenase, the rhtB gene imparting homoserine resistance, the mgo gene coding for malate:quinone oxidoreductase, the rhtC gene imparting threonine resistance, and the thrE gene coding for threonine export.
 - 12. The process of claim 1, wherein in the microorganism one or more of the genes selected from the following group is attenuated: the tdh gene coding for threonine dehydrogenase, the mdh gene coding for malate dehydrogenase, the gene product of the open reading frame (orf) yjfA, the gene product of the open reading frame (orf) ytfp, the pckA gene coding for phosphoenol pyruvate carboxykinase, the poxB gene coding for pyruvate oxidase, the fruR gene coding for the fructose repressor, and the aceA gene coding for isocitrate lyase.
 - 13. The process of claim 1, wherein in the microorganism one or more of the genes selected from the following group is switched off: the tdh gene coding for threonine dehydrogenase, the mdh gene coding for malate dehydrogenase, the gene product of the open reading frame (orf) yjfA, the gene product of the open reading frame (orf) ytfp, the pckA gene coding for phosphoenol pyruvate carboxykinase, the poxB gene coding for pyruvate oxidase, the fruR gene coding for the fructose repressor, and the aceA gene coding for isocitrate lyase.
 - 14. The process of claim 1, wherein in the microorganism the expression of one or more of the genes selected from the following group is reduced: the tdh gene coding for threonine dehydrogenase, the mdh gene coding for malate dehydrogenase, the gene product of the open reading frame (orf) yjfA, the gene product of the open reading frame (orf) ytfp, the pckA gene coding for phosphoenol pyruvate carboxykinase, the poxB gene coding for pyruvate oxidase, the fruR gene coding for the fructose repressor, and the aceA gene coding for isocitrate lyase.
 - 15. The process of claim 1, wherein the microorganism belongs to the genus Escherichia.
 - 16. The process of claim 1, wherein the microorganism belongs to the genus Erwinia.
 - 17. The process of claim 1, wherein the microorganism belongs to the genus Providencia.
 - 18. The process of claim 1, wherein the microorganism belongs to the genus Serratia.
 - 19. The process of claim 1, wherein the microorganism is an E. coli.
 - 20. The process of claim 1, wherein the microorganism is an Enterobacteriaceae selected from the group consisting of Escherichia coli MG442.DELTA.aceA, Escherichia coli TF427, Escherichia coli, Escherichia coli KY10935, Escherichia coli VNIIgenetika MG442, Escherichia coli VNIIgenetika M1, Escherichia coli VNIIgenetika 472T23, Escherichia coli BKIIM B-3996, Escherichia coli kat 13, Escherichia coli KCCM-10132, Serratia marcescens HNr21, Serratia marcescens, and Serratia marcescens T2000.
 - 21. The process of claim 1, wherein the L-amino acid is selected from the group consisting of L-asparagine, L-serine, L-glutamate, L-glycine, L-alanine, L-cysteine, L-valine, L-methionine, L-isoleucine, L-leucine, L-tyrosine, L-phenylalanine, L-histidine, L-lysine, L-tryptophan, and L-arginine.









1: J Bacteriol. 1988 Oct;170(10):4528-36.

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Entrez PubMed

Isolation, hyperexpression, and sequencing of the aceA gene encoding isocitrate lyase in Escherichia coli.

Matsuoka M, McFadden BA.

PubMed Services

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Biochemistry/Biophysics Program, Washington State University, Pullman 99164-4660.

A structural gene for isocitrate lyase was isolated from a cosmid containing an a locus of the Escherichia coli chromosome. Cloning and expression under contro of the tac promoter in a multicopy plasmid showed that a 1.7-kilobase-pair DN/segment was sufficient for complementation of an aceA deletion mutation and overproduction of isocitrate lyase. DNA sequence analysis of the cloned gene at N-terminal protein sequencing of the cloned and wild-type enzymes revealed an entire aceA gene which encodes a 429-amino-acid residue polypeptide whose C-terminus is histidine. The deduced amino acid sequence for the 47.2-kilodalts subunit of E. coli isocitrate lyase could be aligned with that for the 64.8-kilodalt subunit of the castor bean enzyme with 39% identity except for limited N- and C-terminal regions and a 103-residue stretch that was unique for the plant enzyr and started approximately in the middle of that peptide.

PMID: 3049537 [PubMed - indexed for MEDLINE]



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